Activity 6

```
astor@REAPER: ~/Documents/EEE/CoE 197S/ME8_Containerization_and_Docker/6-networking
                                REAPER:~/Documents/EEE/CoE 1975/ME8_Containerization_and_Docker/6-networking$ sudo docker network ls
NETWORK ID
b6abde186140
                                                                     NAME
bridge
                                                                                                                                                                        SCOPE
                                                                                                                        bridge
                                                                                                                                                                         local
b6abde160146
ab62333fad89
fb59f5172100
astor@REAPER:
                                                                                                                                                            local
1975/ME8_Containerization_and_Docker/6-networking$ sudo docker network inspect bridge
                                    "Name": "bridge",
"Id": "b6abde18614063a2b81ce4bbb95ab400a597f59c6ff85a9a6a4f354de1949a9c",
"Created": "2021-06-14T21:03:36.848472662+08:00",
"Scope": "local",
"Driver": "bridge",
"Fasblande",
"Fasbla
                                      "EnableIPv6": false,
"IPAM": {
                                                         "Driver": "default",
"Options": null,
"Config": [
                                                                                              "Subnet": "172.17.0.0/16"
                                    },
"Internal": false,
"Attachable": false,
"Ingress": false,
                                      "ConfigFrom": {
    "Network": ""
                                    },
"ConfigOnly": false,
"Containers": {},
                                      "Options": {
    "com.docker.network.bridge.default bridge": "true",
                                                        "com.docker.network.bridge.default_bridge: "true",
"com.docker.network.bridge.enable icc": "true",
"com.docker.network.bridge.enable ip masquerade": "true",
"com.docker.network.bridge.host_binding jpv4": "0.0.0.0",
"com.docker.network.bridge.name": "docker0",
"com.docker.network.driver.mtu": "1500"
                                   },
"Labels": {}
```

```
astor@REAPER: ~/Documents/EEE/CoE 197S/ME8_Containerization_and_Docker/6-networking
 stor@REAPER:~/Documents/EEE/CoE 197S/ME8_Containerization_and_Docker/6-networking$ sudo docker run --rm -d -e PING TARGET=dummy --name pinger allforastor/;
1b1b472fa8ef5c5b76bfc423c73d378cf6a012ecad9c26c22b8b003c79e12cbe
astor@REAPER:~/Documents/EEE/CoE 1975/ME8_Containerization_and_Docker/6-networking$ sudo docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS
e56c8c763le5 allforastor/ping:1.0 "sh -c 'ping $PING T..." 6 minutes ago Up 6 minutes
                                                                                                                                                                           NAMES
          NEK ID IMAGE SIAIOS PORTS NAI
7631e5 allforastor/ping:1.0 "sh-c 'ping $PING_T..." 6 minutes ago Up 6 minutes du
REAPER:~/Documents/EEE/CoE 1975/ME8_Containerization_and_Docker/6-networking$ sudo docker stop dummy
astor@REAPER:-/Documents/EEE/COE 1975/ME8_Containerization_and_Docker/6-networking$ sudo docker network create skynet
2ee6c956494b7f796bf70ef46ef575582f3fc85e9a5c5f727b88670dab8224ec
astor@REAPEr:-/Documents/EEE/CoE 1975/ME8_Containerization_and_Docker/6-networking$ sudo docker network ls
NETWORK ID NAME DRIVER SCOPE
b6abde186140
ab62333fad89
                        bridge
                                        bridge
                                                         local
                                                         local
                        host
                                        host
2ee6c956494b
 ee6c956494b skynet bridge local
|stor@REAPER:~/Documents/EEE/CoE 1975/ME8_Containerization_and_Docker/6-networking$ sudo docker network inspect skynet
            "Name": "skynet",
"Id": "2ee6c956494b7f796bf70ef46ef575582f3fc85e9a5c5f727b88670dab8224ec",
             "Created": "2021-06-15T01:57:25.528382126+08:00",
"Scope": "local",
"Driver": "bridge",
             "EnableIPv6": false,
"IPAM": {
                   "Driver": "default",
"Options": {},
"Config": [
                                "Subnet": "172.18.0.0/16",
"Gateway": "172.18.0.1"
            },
"Internal": false,
"Attachable": false,
"-- false.
             "Ingress": false,
             "ConfigFrom": {
"Network": ""
            },
"ConfigOnly": false,
```

```
astor@REAPER: ~/Documents/EEE/CoE 197S/ME8_Containerization_and_Docker/6-networking
                           "Driver": "default",
"Options": {},
"Config": [
                                            "Subnet": "172.18.0.0/16",
"Gateway": "172.18.0.1"
                 },
"Internal": false,
                  "Attachable": false,
                   "Ingress": false,
                  "ConfigFrom": {
    "Network": ""
                  },
"ConfigOnly": false,
"Containers": {},
                  "Options": {}, 
"Labels": {}
    stor@REAPER:~/Documents/EEE/CoE 197S/ME8 Containerization and Docker/6-networking$ sudo docker run --rm -d --network skynet --name dummy allforastor/ping:1
 21ecba09dae1413ca9259ecfae0993e136eb8807e2cbc4a353943ad248f0ecc4
 astor@REAPER:~/Documents/EEE/CoE 1975/ME8_Containerization_and_Docker/6-networking$ sudo docker run --rm -d --network skynet -e PIN6_TARGET=dummy --name pinger allforastor/ping:1.0
 2497c02135daa66de9c75ae1b5bfe4303f4686f47e01468e57c2a2e73f399ae8
astor@REAPER:~/Documents/EEE/CoE 1975/ME8 Containerization and Docker/6-networking$ sudo docker logs pinger
astor@REAPER:-/Documents/EEE/CoE 1975/ME8_Containerization_and_Docker/6-networking$ sudo docker logs pinger PING dummy (172.18.0.2) 56(84) bytes of data.

64 bytes from dummy.skynet (172.18.0.2): icmp_seq=1 ttl=64 time=0.191 ms

64 bytes from dummy.skynet (172.18.0.2): icmp_seq=2 ttl=64 time=0.095 ms

64 bytes from dummy.skynet (172.18.0.2): icmp_seq=3 ttl=64 time=0.140 ms

64 bytes from dummy.skynet (172.18.0.2): icmp_seq=4 ttl=64 time=0.120 ms

64 bytes from dummy.skynet (172.18.0.2): icmp_seq=5 ttl=64 time=0.107 ms

64 bytes from dummy.skynet (172.18.0.2): icmp_seq=5 ttl=64 time=0.144 ms

64 bytes from dummy.skynet (172.18.0.2): icmp_seq=6 ttl=64 time=0.144 ms

64 bytes from dummy.skynet (172.18.0.2): icmp_seq=8 ttl=64 time=0.144 ms

64 bytes from dummy.skynet (172.18.0.2): icmp_seq=8 ttl=64 time=0.144 ms

65 bytes from dummy.skynet (172.18.0.2): icmp_seq=8 ttl=64 time=0.144 ms

66 bytes from dummy.skynet (172.18.0.2): icmp_seq=8 ttl=64 time=0.144 ms

67 bytes from dummy.skynet (172.18.0.2): icmp_seq=8 ttl=64 time=0.144 ms
 pinger
astor@REAPER:~/Documents/EEE/CoE 1975/ME8_Containerization_and_Docker/6-networking$ sudo docker stop dummy
  astor@REAPER:~/Documents/EEE/CoE 197S/ME8_Containerization_and_Docker/6-networking$
```

```
astor@REAPER: ~/Documents/EEE/CoE 1975/ME8_Containerization_and_Docker/6-networking
astor@REAPER:~/Documents/EEE/CoE 1975/ME8 Containerization and Docker/6-networking$ sudo docker run --rm -d --name widgetdb --network skynet -p 5432 postgre
46c2e94fbc2fa3e0b058b8759157180497f2eeb030c2317cb35b3dd378ea611c
astor@REAPER:~/Documents/EEE/CoE 1975/ME8_Containerization_and_Docker/6-networking$ sudo docker run --rm -d --name gadgetdb --network skynet -p 5432 postgre
30c1b80c3e41a2edc28963586f7aec054f842d0440ee46a29ab79957051c7601
astor@REAPER:~/Documents/EEE/COE 1975/ME8_Containerization_and_Docker/6-networking$ sudo docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
astor@REAPER:~/Documents/EEE/COE 1975/ME8_Containerization_and_Docker/6-networking$ sudo docker exec -it widgetdb /db/bash
Error: No such container: widgetdb
astor@REAPER:~/Documents/EEE/CoE 1975/ME8_Containerization_and_Docker/6-networking$ sudo docker stop widgetdb gadgetdb
Error response from daemon: No such container: widgetdb
Error response from daemon: No such container: gadgetdb
 stor@REAPER:-/Documents/EEE/CoE 197S/ME8_Containerization_and_Docker/6-networking$ sudo docker run --rm -d --name widgetdb --network skynet -p 5432:5432 po
stgres
stgres
4:00:37:092d1595b85f859dfa56662513534bff4ec968c5a1614ca61d4ad039b
astor@REAPER:~/Documents/EEE/CoE 1975/ME8_Containerization_and_Docker/6-networking$ psql -U postgres -h localhost
Command 'psql' not found, but can be installed with:
sudo apt install postgresql-client-common
astor@REAPER:~/Documents/EEE/CoE 1975/ME8_Containerization_and_Docker/6-networking$ sudo docker stop widgetdb
Error response from daemon: No such container: widgetdb
astor@REAPER:~/Documents/EEE/CoE 197S/ME8_Containerization_and_Docker/6-networking$ sudo docker network inspect skynet
           "Id": "17163e061c14c75254ab1a747560022b0b2b136bb63030abd548a48c8c8296ff",
          "Created": "2021-06-15T02:25:26.741616261+08:00",
"Scope": "local",
"Driver": "bridge",
           "EnableIPv6": false,
"IPAM": {
                " . {
"Driver": "default",
"Options": {},
"Config": [
                           "Subnet": "172.19.0.0/16",
"Gateway": "172.19.0.1"
```